

Figure 1

Not1 Site

(SEQ ID NO:21)

EcoRI site

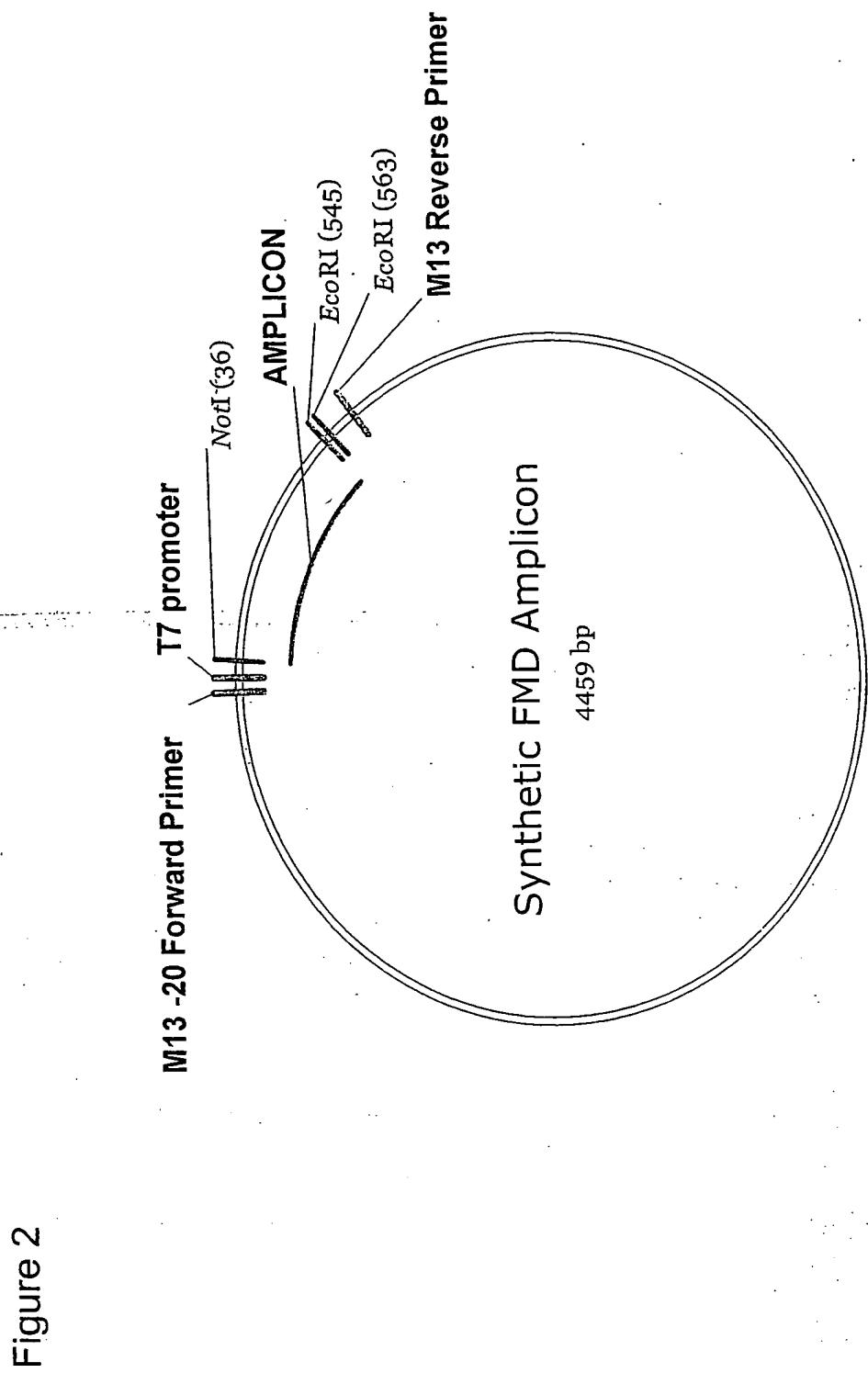
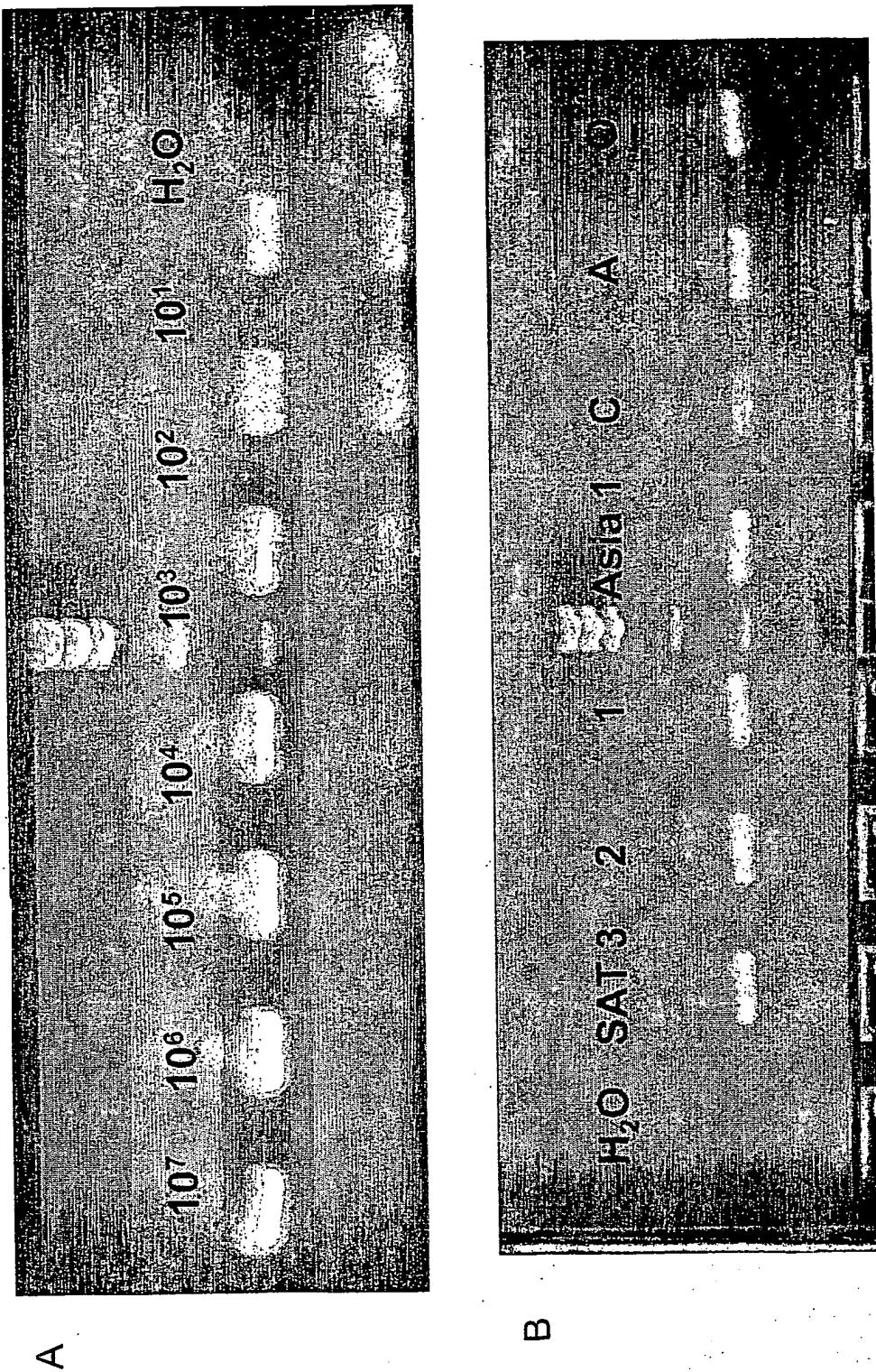


Figure 3



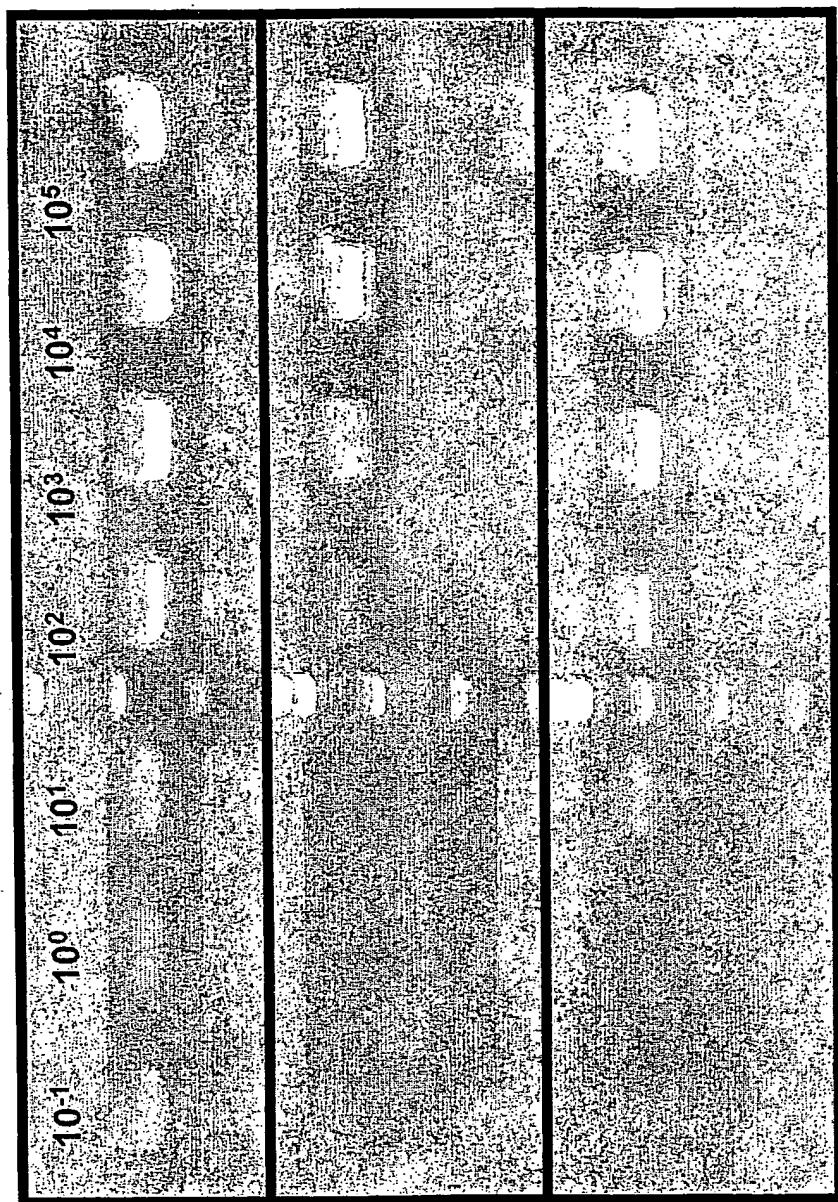


Figure 4

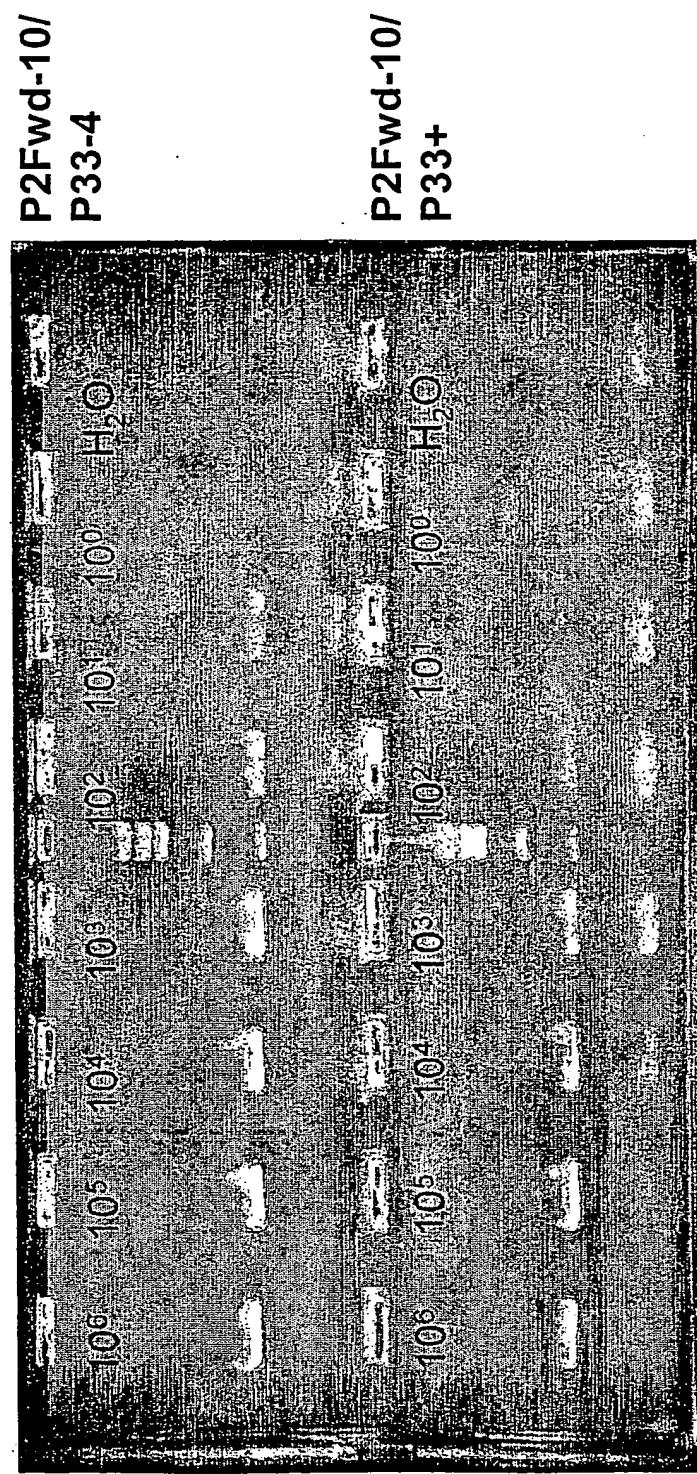
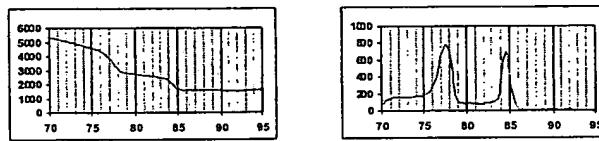


Figure 5

Figure 6

Mechanism of melting curve analysis

Data Transformation



Raw Data

Processed Data

Data transformations involve the following:

1. Interpolate data to get evenly spaced data points
2. Take log of fluorescence (F)
3. Smooth log F
4. Calculate $-d(\log F)/dT$ $-d_F/d_T$
5. Reduce data to 11-13 data points spaced one degree apart depending on the target organism